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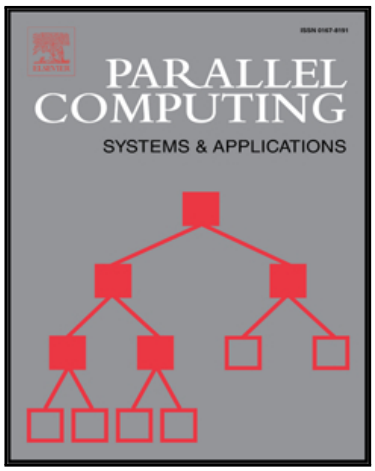

A Hybrid Multi-Objective Particle Swarm Optimization For Scientific Workflow Scheduling

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PII: S0167-8191(17)30014-5
DOI: 10.1016/j.parco.2017.01.002
Reference: PARCO 2361

To appear in: *Parallel Computing*

Received date: 28 August 2015
Revised date: 26 October 2016
Accepted date: 23 January 2017

Please cite this article as: Amandeep Verma , Sakshi Kaushal , A Hybrid Multi-Objective Particle Swarm Optimization For Scientific Workflow Scheduling, *Parallel Computing* (2017), doi: 10.1016/j.parco.2017.01.002

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Highlights

- A heuristic is used to initialize the population of Particle Swarm Optimization.
- Based upon the heuristic, hybrid multi-objective Particle Swarm Optimization (HPSO) is proposed.
- Multi-objective optimization workflow scheduling problem in IaaS cloud environment is addressed.
- HPSO is simulated using workflow structures based upon real scientific problems.
- HPSO is compared with other state-of-art algorithms.

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